## WHAT IS CLAIMED IS:

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1	1.	A	wiring	board	where	in an	opening	is	defined	at	a
2	predeter	nin	ed posi	tion of	a fil	m-like	e insulat	ing	substrat	e,	an
3	electric	win	ring pro	wided w	rith a	connec	tion tor		1		٠.

- opening is disposed on a principal plane of the insulating substrate, 4
- and a conductive member to be connected with the connection terminal
- of the electric wiring is disposed inside the opening, comprising: 6

said conductive member having a thickness from a surface on which said electric wiring of the insulating substrate has been disposed being thinner than that of said insulating substrate.

- 2. A wiring board as claimed in claim 2, wherein: a thickness of said conductive member is 1/2 or more of that of said insulating substrate.
  - 3. A wiring board as claimed in claim 1, wherein:
  - said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- said opening.
- 1 4. A wiring board as claimed in claim 2, wherein:
- 2 said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 1 5. A wiring board as claimed in claim 1, wherein:
- 2 said conductive member is made from any member selected from

- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Aq).
- 6. A wiring board as claimed in claim 2, wherein:
- 2 said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 7. A wiring board as claimed in claim 3, wherein:
  - said conductive member is made from any member selected from the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
    - 8. A wiring board as claimed in claim 1, wherein:
  - a thin film layer made of nickel (Ni) and a thin film layer made of gold (Au) are sequentially disposed on a surface of said conductive member.
    - 9. A wiring board as claimed in claim 2, wherein:
  - a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
  - conductive member.
- 1 10. A wiring board as claimed in claim 3, wherein:
- 2 a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member
- 1 11. A wiring board as claimed in claim 4, wherein:
- 2 a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said

4 conductive member

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12. A semiconductor device wherein a wiring board in which an opening is defined at a predetermined position of a film-like insulating substrate, an electric wiring provided with a connection terminal covering said opening is disposed on a principal plane of said insulating substrate, and a conductive member to be connected with the connection terminal of said electric wiring is disposed inside the opening is placed; a semiconductor chip is placed on the surface of said wiring board on which said electric wiring has been disposed; the electric wiring of said wiring board is electrically connected with an external electrode of the semiconductor chip; and said semiconductor chip, said electric wiring, and connecting section for said electric wiring and said external electrode of the semiconductor chip are sealed with a sealing insulator, comprising:

said conductive member having a thickness from a surface on which said electric wiring of the insulating substrate has been formed being thinner than that of said insulating substrate.

- 1 13. A semiconductor device as claimed in claim 12, wherein:
- 2 said semiconductor chip is placed in such that a surface opposed
- 3 to the surface on which said external electrode has been formed
- 4 is opposed to said wiring board; and
- 5 said external electrode is connected with said electric wiring
- 6 by means of a bonding wire.
- 1 14. A semiconductor device as claimed in claim 12, wherein:

- 2 said semiconductor chip is placed in such that said external
- 3 electrode thereof is opposed to said wiring board; and
- 4 said external electrode is connected with said electric wiring
- 5 by means of a protrusion conductor.
- 1 15. A semiconductor device as claimed in claim 8, wherein:
- 2 a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
  - 16. A semiconductor device as claimed in claim 12, wherein:
  - a thickness of said conductive member is 1/2 or more of that
  - of said insulating substrate.
  - 17. A semiconductor device as claimed in claim 13, wherein:
  - a thickness of said conductive member is 1/2 or more of that
  - of said insulating substrate.
- 1 18. A semiconductor device as claimed in claim 14, wherein:
- a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
- 1 19. A semiconductor device as claimed in claim 8, wherein:
- 2 said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 20. A semiconductor device as claimed in claim 12, wherein:
- 2 said conductive member has a thinner thickness at the central

- 3 portion of said opening than that of a vicinity of a side wall of 4 said opening.
- 1 21. A semiconductor device as claimed in claim 13, wherein:
  2 said conductive member has a thinner thickness at the central
  3 portion of said opening than that of a vicinity of a side wall of
  4 said opening.
  - 22. A semiconductor device as claimed in claim 14, wherein: said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
  - 23. A semiconductor device as claimed in claim 15, wherein: said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 1 24. A semiconductor device as claimed in claim 8, wherein:
  2 said conductive member is made from any member selected from
  3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 25. A semiconductor device as claimed in claim 12, wherein:
   said conductive member is made from any member selected from
   the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- A semiconductor device as claimed in claim 13, wherein:
   said conductive member is made from any member selected from

- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Aq).
- A semiconductor device as claimed in claim 14, wherein:
   said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
  - 28. A semiconductor device as claimed in claim 15, wherein: said conductive member is made from any member selected from the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
    - 29. A semiconductor device as claimed in claim 19, wherein: said conductive member is made from any member selected from the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
    - 30. A semiconductor device as claimed in claim 8, wherein: a thin film layer made of nickel (Ni) and a thin film layer made of gold (Au) are sequentially disposed on a surface of said conductive member.
- 31. A semiconductor device as claimed in claim 12, wherein:
  a thin film layer made of nickel (Ni) and a thin film layer
  made of gold (Au) are sequentially disposed on a surface of said
  conductive member.
- 32. A semiconductor device as claimed in claim 13, wherein:
  a thin film layer made of nickel (Ni) and a thin film layer
  made of gold (Au) are sequentially disposed on a surface of said
  conductive member.

- 33. A semiconductor device as claimed in claim 14, wherein:
- 2 a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 34. A semiconductor device as claimed in claim 15, wherein:
  - a thin film layer made of nickel (Ni) and a thin film layer
  - made of gold (Au) are sequentially disposed on a surface of said
  - conductive member.
    - 35. A semiconductor device as claimed in claim 19, wherein:
  - a thin film layer made of nickel (Ni) and a thin film layer
  - made of gold (Au) are sequentially disposed on a surface of said
  - conductive member.
    - 36. A semiconductor device as claimed in claim 24, wherein:
  - a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 37. A process for the production of a wiring board, comprising
- 2 the steps of:
- 3 defining an opening at a predetermined position of a film-like
- 4 insulating substrate;
- 5 forming a conductive thin film on a principal plane of said
- 6 insulating substrate;
- 7 etching said conductive thin film to form an electric wiring

- 8 provided with a connection terminal covering said opening; and
- 9 forming a conductive member having a thickness equal to or
- 10 thinner than that of said insulating substrate.
- 1 38. A process for the production of a wiring board, comprising
- 2 the steps of:
- 3 defining an opening at a predetermined position of a film-like
- 4 insulating substrate:
  - forming a conductive thin film on a principal plane of said insulating substrate;
  - etching said conductive thin film to form an electric wiring provided with a connection terminal covering said opening;
  - forming a conductive member having a thickness equal to or thinner than that of said insulating substrate; and
  - forming sequentially a thin film layer made of nickel (Ni) and a thin film layer made of gold (Au) on the surfaces of said electric wiring and said conductive member.
- 1 40. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:
- 3 a step for forming said conductive member is effected by forming
- 4 a copper (Cu) plating or a nickel (Ni) plating in accordance with
- 5 electroplating method.
- 41. A process for the production of a wiring board as claimed
- 2 in claim 38, wherein:
- 3 a step for forming said conductive member is effected by forming
- 4 a copper (Cu) plating or a nickel (Ni) plating in accordance with

- 5 electroplating method.
- 1 42. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:

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- 3 a step for forming said conductive member is effected by forming
- 4 a nickel (Ni) plating in accordance with electroless plating method.
  - 43. A process for the production of a wiring board as claimed in claim 38, wherein:

a step for forming said conductive member is effected by forming a nickel (Ni) plating in accordance with electroless plating method.

- $$43.$\ A process for the production of a wiring board as claimed in claim <math display="inline">$37.$\ wherein:$
- a step for forming said conductive member is effected by such a manner that the inside of said opening is filled with a conductive paste of silver (Ag) or copper (Cu), and said conductive paste is solidified.
- 1  $\,$  44. A process for the production of a wiring board as claimed
- 2 in claim 38, wherein:
- 3 a step for forming said conductive member is effected by such
- 4 a manner that the inside of said opening is filled with a conductive
- 5 paste of silver (Ag) or copper (Cu), and said conductive paste is
- 6 solidified.
- 45. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:

- a step for forming said conductive member is effected by such
  a manner that said conductive member has a thinner thickness at
  the central portion of said opening than that of a vicinity of a
  side wall of said opening.
- 46. A process for the production of a wiring board as claimed
   in claim 38, wherein:

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- a step for forming said conductive member is effected by such a manner that said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 47. A process for the production of a wiring board as claimed in claim 39, wherein:
- a step for forming said conductive member is effected by such a manner that said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 1 48. A process for the production of a wiring board as claimed 2 in claim 41, wherein:
- a step for forming said conductive member is effected by such
  a manner that said conductive member has a thinner thickness at
  the central portion of said opening than that of a vicinity of a
  side wall of said opening.
- 49. A process for the production of a wiring board as claimed
   in claim 43, wherein:

- 3 a step for forming said conductive member is effected by such
- 4 a manner that said conductive member has a thinner thickness at
- 5 the central portion of said opening than that of a vicinity of a
- 6 side wall of said opening.